List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-9 (canceled).

Claim 10 (new): A differential pressure sensor for measuring the pressure difference between a pressure acting on a high-pressure side and a pressure acting on a low-pressure side, comprising:

A measuring mechanism having:

a chamber on the high-pressure side that is sealed by a first dividing membrane and filled with a transfer medium, said first dividing membrane is loaded with a pressure acting on the high-pressure side;

a chamber on the low-pressure side that is sealed by a second dividing membrane and filled with a transfer medium, said second dividing membrane is loaded with a pressure acting on the low-pressure side;

a pressure-sensitive element which separates said chamber on the high-pressure side from said chamber on the low-pressure side; and

a throttle for damping overload pulses; wherein:

said throttle is arranged between said pressure-sensitive element and said second dividing membrane.

Claim 11 (new): The differential pressure sensor as claimed in claim 10, wherein:

said transfer medium is a hydraulic liquid, especially a silicone oil.

Claim 12 (new): The differential pressure sensor as claimed in claim 10, wherein:

said pressure-sensitive element has a measuring membrane, especially a piezoresistive silicon chip with a measuring membrane.

Claim 13 (new): The differential pressure sensor as claimed in claim 10, wherein:

said throttle has a sintered body.

Claim 14 (new): The differential pressure sensor as claimed in claim 13, wherein;

said sintered body is a metallic or a ceramic sintered body.

Claim 15 (new): The differential pressure sensor as claimed in claim 10, wherein:

said throttle has a porous structure.

Claim 16 (new): The differential pressure sensor as claimed in claim 15, wherein;

said porous structure has an effective flow pore diameter of not less than 4 µm and not more than 28 µm, preferably between 8 µm and 16 µm.

Claim 17 (new): The differential pressure sensor as claimed in claim 15, wherein:

said the porous structure has a porosity between 15 vol.% and 50 vol.%, preferably between 25 vol% and 35 vol%.

Claim 18 (new): The differential pressure sensor as claimed in claim 13, wherein:

said sintered body has an essentially cylindrical form and the length of said sintered body in the axial direction is at least twice as large as the diameter.